

1600 #17

## CRF Errors Edited by the STIC Systems Branch

Serial Number:

09/942,252C CRF Edit Date: 8/4/04  
Edited by: AR

Realigned nucleic acid amino acid numbers/text in cases where the sequence text "wrapped" to the next line

ENTERED

Corrected the SEQ ID NO. Sequence numbers edited were:

---

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

---

Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

---

Inserted mandatory headings/numeric identifiers, specifically:

---

Moved responses to same line as heading/numeric identifier, specifically:

---

Other:

Sequence 16 - corrected amino acid numbering

---

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1600

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/09/942,252C

**DATE:** 08/04/2004  
**TIME:** 16:05:17

**Input Set :** A:\PTO.AMC.txt  
**Output Set:** N:\CRF4\08042004\I942252C.raw

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3 <110> APPLICANT: Messier, Walter
4      Sikela, James M
6 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide
7 Sequences Which May Be Associated with Physiological
8 and Medical Conditions
10 <130> FILE REFERENCE: GENO 200.2/CIP
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/942,252C
C--> 13 <141> CURRENT FILING DATE: 2001-08-28
15 <150> PRIOR APPLICATION NUMBER: 09/591,435
16 <151> PRIOR FILING DATE: 2000-06-09
18 <150> PRIOR APPLICATION NUMBER: 09/240,915
19 <151> PRIOR FILING DATE: 1999-01-29
21 <150> PRIOR APPLICATION NUMBER: 60/073,263
22 <151> PRIOR FILING DATE: 1998-01-30
24 <150> PRIOR APPLICATION NUMBER: 60/098,987
25 <151> PRIOR FILING DATE: 1998-09-02
27 <160> NUMBER OF SEQ ID NOS: 30
29 <170> SOFTWARE: PatentIn Ver. 2.0
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33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
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41 gagttgtctcc tgcctggaa caaccggaaat gtgtatgaac tgagcaatgt gcaagaagat 180
43 agccaaccaa tgtgttattc aaactgccct gatggcagt caacagctaa aaccccttc 240
45 accgtgtact ggactccaga acgggtggaa ctggcacccc tccctcttgc cagccagt 300
47 ggcaagaacc ttaccctacg ctgccagggt gagggtgggg cacccgggc caacctcacc 360
49 gtgggtgtgc tccgtggaa gaaggagctg aaacgggagc cagctgtggg ggagcccgct 420
51 gaggtcacga ccacgggtct ggtgaggaga gatcaccatg gagccaattt ctcgtggcc 480
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59 gcccagggtcc acctggact gggggaccag aggttgaacc ccacagtac ctatggcaac 720
61 gactccttct cggccaaggc ctcagtcagt gtgaccgcag aggacgaggc caccagcgg 780
63 ctgacgtgtc cagtaatact gggaaaccag agccaggaga cactgcagac agtggaccatc 840
65 tacagctttc cggcgcccaa cgtgattctg acgaagccag aggtctcaga agggaccgag 900
67 gtgacagtga agtgtgaggc ccacccatgt gccaagggtga cgctgaatgg ggttccagcc 960
69 cagccactgg gccccgggc ccagctcctg ctgaaggcca ccccaaggaga caacgggcgc 1020
71 agcttctctt gctctgcaac cctggagggtg gcccggcagc ttatacacaat gaaccagacc 1080
73 cggagacttc gtgtccctgt a tggcccccgtt ctggacgaga gggattgtcc gggaaactgg 1140
75 acgtggccag aaaattccca gcagactcca atgtgccagg cttggggaaa cccattggcc 1200

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252C

DATE: 08/04/2004  
TIME: 16:05:17

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\08042004\I942252C.raw

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 83 gcagccgcag tcataatggg cactgcaggc ctcagcacgt acctctataa ccgcccagcgg 1440  
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 102 1 5 10 15  
 104 gtg cag gtg aca tgc agc acc tcc tgt gac cag ccc gac ttg ttg ggc 96  
 105 Val Gln Val Thr Cys Ser Thr Cys Asp Gln Pro Asp Leu Leu Gly  
 106 20 25 30  
 108 ata gag acc ccg ttg cct aaa aag gag ttg ctt ctg ggt ggg aac aac 144  
 109 Ile Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Gly Gly Asn Asn  
 110 35 40 45  
 112 tgg aag gtg tat gaa ctg agc aat gtg caa gaa gat agc caa cca atg 192  
 113 Trp Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met  
 114 50 55 60  
 116 tgc tat tca aac tgc cct gat ggg cag tca aca gct aaa acc ttc ctc 240  
 117 Cys Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu  
 118 65 70 75 80  
 120 acc gtg tac tgg act cca gaa cgg gtg gaa ctg gca ccc ctc ccc tct 288  
 121 Thr Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser  
 122 85 90 95  
 124 tgg cag cca gtg ggc aag gac ctt acc cta cgc tgc cag gtg gag ggt 336  
 125 Trp Gln Pro Val Gly Lys Asp Leu Thr Leu Arg Cys Gln Val Glu Gly  
 126 100 105 110  
 128 ggg gca ccc cgg gcc aac ctc acc gtc gtc ctg ctc cgt ggg gag aag 384  
 129 Gly Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys  
 130 115 120 125  
 132 gag ctg aaa cgg gag cca gct gtg ggg gag ccc gct gag gtc acg acc 432  
 133 Glu Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr  
 134 130 135 140  
 136 acg gtg ctg gtg gag aga gat cac cat gga gcc aat ttc tcg tgc cgc 480  
 137 Thr Val Leu Val Glu Arg Asp His His Gly Ala Asn Phe Ser Cys Arg  
 138 145 150 155 160  
 140 act gaa ctg gac ctg cgg ccc caa ggg ctg cag ctg ttt gag aac acc 528  
 141 Thr Glu Leu Asp Leu Arg Pro Gln Gly Leu Gln Leu Phe Glu Asn Thr  
 142 165 170 175  
 144 tcg gcc ccc cac cag ctc caa acc ttt gtc ctg cca gcg act ccc cca 576  
 145 Ser Ala Pro His Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro

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Input Set : A:\PTO.AMC.txt  
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152	gtc tgt tcc ctg gac ggg ctg ttc cca gtc tcg gag gcc cag gtc cac			672
153	Val Cys Ser Leu Asp Gly Leu Phe Pro Val Ser Glu Ala Gln Val His			
154	210	215	220	
156	ctg gca ctg ggg gac cag agg ttg aac ccc aca gtc acc tat ggc aat			720
157	Leu Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn			
158	225	230	235	240
160	gac tcc ttc tcg gcc aag gcc tca gtc agt gtg acc gca gag gac gag			768
161	Asp Ser Phe Ser Ala Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu			
162	245	250	255	
164	ggc acc cag cgg ctg acg tgt gca gta ata ctg ggg aac cag acg cgg			816
165	Gly Thr Gln Arg Leu Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Arg			
166	260	265	270	
168	gag aca ctg cag aca gtg acc atc tac acg ttt ccg gcg ccc aac gtg			864
169	Glu Thr Leu Gln Thr Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val			
170	275	280	285	
172	att ctg acg aag cca gag gtc tca gaa ggg acc gag gtg aca gtg aag			912
173	Ile Leu Thr Lys Pro Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys			
174	290	295	300	
176	tgt gag gcc cac cct aga gcc aag gtg acg ctg aat ggg gtt cca gcc			960
177	Cys Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala			
178	305	310	315	320
180	cag cca gtg ggc ccg agg gtc cag ctc ctg ctg aag gcc acc cca gag			1008
181	Gln Pro Val Gly Pro Arg Val Gln Leu Leu Lys Ala Thr Pro Glu			
182	325	330	335	
184	gac aac ggg cgc acg ttc tcc tgc tct gca acc ctg gag gtg gcc ggc			1056
185	Asp Asn Gly Arg Ser Phe Ser Cys Ser Ala Thr Leu Glu Val Ala Gly			
186	340	345	350	
188	cag ctt ata cac aag aac cag acc cgg gag ctt cgt gtc ctg tat ggc			1104
189	Gln Leu Ile His Lys Asn Gln Thr Arg Glu Leu Arg Val Leu Tyr Gly			
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192	ccc cga ctg gac gag agg gat tgt ccg gga aac tgg acg tgg cca gaa			1152
193	Pro Arg Leu Asp Glu Arg Asp Cys Pro Gly Asn Trp Thr Trp Pro Glu			
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196	aat tcc cag cag act cca atg tgc cag gct tcg ggg aac cca ttg ccc			1200
197	Asn Ser Gln Gln Thr Pro Met Cys Gln Ala Ser Gly Asn Pro Leu Pro			
198	385	390	395	400
200	gag ctc aag tgt cta aag gat ggc act ttc cca ctg ccc gtc ggg gaa			1248
201	Glu Leu Lys Cys Leu Lys Asp Gly Thr Phe Pro Leu Pro Val Gly Glu			
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204	tca gtg act gtc act cga gat ctt gag ggc acc tac ctc tgt cgg gcc			1296
205	Ser Val Thr Val Thr Arg Asp Leu Glu Gly Thr Tyr Leu Cys Arg Ala			
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210	435	440	445	

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214	450						455						460				
216	ata	atg	ggc	act	gca	ggc	ctc	agc	acg	tac	ctc	tat	aac	cgc	cag	cgg	1440
217	Ile	Met	Gly	Thr	Ala	Gly	Leu	Ser	Thr	Tyr	Leu	Tyr	Asn	Arg	Gln	Arg	
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220	aag	atc	agg	aaa	tac	aga	cta	caa	cag	gct	caa	aaa	ggg	acc	ccc	atg	1488
221	Lys	Ile	Arg	Lys	Tyr	Arg	Leu	Gln	Gln	Ala	Gln	Lys	Gly	Thr	Pro	Met	
222							485						490				495
224	aaa	ccg	aac	aca	caa	gcc	acg	cct	ccc	tga							1518
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236	1						5				10			15			
238	Val	Gln	Val	Thr	Cys	Ser	Thr	Ser	Cys	Asp	Gln	Pro	Asp	Leu	Leu	Gly	
239							20				25			30			
241	Ile	Glu	Thr	Pro	Leu	Pro	Lys	Lys	Glu	Leu	Leu	Leu	Gly	Gly	Asn	Asn	
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254							100				105			110			
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257							115				120			125			
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275							210				215			220			
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252C

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Input Set : A:\PTO.AMC.txt  
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287 275 280 285  
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290 290 295 300  
292 Cys Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala  
293 305 310 315 320  
295 Gln Pro Val Gly Pro Arg Val Gln Leu Leu Leu Lys Ala Thr Pro Glu  
296 325 330 335  
298 Asp Asn Gly Arg Ser Phe Ser Cys Ser Ala Thr Leu Glu Val Ala Gly  
299 340 345 350  
301 Gln Leu Ile His Lys Asn Gln Thr Arg Glu Leu Arg Val Leu Tyr Gly  
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305 370 375 380  
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308 385 390 395 400  
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311 405 410 415  
313 Ser Val Thr Val Thr Arg Asp Leu Glu Gly Thr Tyr Leu Cys Arg Ala  
314 420 425 430  
316 Arg Ser Thr Gln Gly Glu Val Thr Arg Lys Val Thr Val Asn Val Leu  
317 435 440 445  
319 Ser Pro Arg Tyr Glu Ile Val Ile Ile Thr Val Val Ala Ala Ala Val  
320 450 455 460  
322 Ile Met Gly Thr Ala Gly Leu Ser Thr Tyr Leu Tyr Asn Arg Gln Arg  
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346 accgtgtact ggactccaga acgggtggaa ctggcacccc tcccttgc gcagccagt 300  
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360 gcccaggatcc acctggcact gggggaccag aggttgaacc ccacagtac ctatggcaac 720

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/942,252C

DATE: 08/04/2004

TIME: 16:05:18

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08042004\I942252C.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,252C

DATE: 08/02/2004

TIME: 15:05:37

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 Output Set: N:\CRF4\08022004\I942252C.raw

3 <110> APPLICANT: Messier, Walter  
 4 Sikela, James M  
 6 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide  
 7 Sequences Which May Be Associated with Physiological  
 8 and Medical Conditions  
 10 <130> FILE REFERENCE: GENO 200.2/CIP  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/942,252C  
 C--> 13 <141> CURRENT FILING DATE: 2001-08-28  
 15 <150> PRIOR APPLICATION NUMBER: 09/591,435  
 16 <151> PRIOR FILING DATE: 2000-06-09  
 18 <150> PRIOR APPLICATION NUMBER: 09/240,915  
 19 <151> PRIOR FILING DATE: 1999-01-29  
 21 <150> PRIOR APPLICATION NUMBER: 60/073,263  
 22 <151> PRIOR FILING DATE: 1998-01-30  
 24 <150> PRIOR APPLICATION NUMBER: 60/098,987  
 25 <151> PRIOR FILING DATE: 1998-09-02  
 27 <160> NUMBER OF SEQ ID NOS: 30  
 29 <170> SOFTWARE: PatentIn Ver. 2.0

Doc No: Comply  
Selected Docket Number

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1466 <210> SEQ ID NO: 16  
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 1476 20 25 30  
 1478 Leu Val Met Glu Phe Cys Pro Leu Gly Asp Leu Lys Gly Tyr Leu Arg  
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 1482 50 55 60  
 1484 Arg Met Ala Cys Glu Val Ala Cys Gly Val Leu His Leu His Arg Asn  
 1485 65 70 75 80  
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 1490 Asp Leu Thr Val Lys Ile Gly Asp Tyr Gly Leu Ala His Cys Lys Tyr  
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P4

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Input Set : A:\09942252Sequence Listing.txt  
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 1500 145 150 155 160  
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 1505 Gln Gln Val Leu Ala Tyr Thr Val Arg Glu Gln Gln Leu Lys Leu Pro  
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 1509 195 200 205  
 1511 Gln Phe Cys Trp Leu Gln Pro Glu Gln Arg Pro Thr Ala Glu Glu Val  
 1512 210 215 220  
 1514 His Leu Leu Leu Ser Tyr Leu Cys Ala Lys Gly Ala Thr Glu Ala Glu  
 1515 225 230 235 240  
 1517 Glu Glu Phe Glu Arg Arg Trp Arg Ser Leu Arg Pro Gly Gly Gly  
 1518 245 250 255  
 1520 Val Gly Pro Gly Pro Gly Ala Ala Gly Pro Met Leu Gly Gly Val Val  
 1521 260 265 270  
 1523 Glu Leu Ala Ala Ala Ser Ser Phe Pro Leu Leu Glu Gln Phe Ala Gly  
 1524 275 280 285  
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 1547 Thr Ala Ala Ser Leu Ala Met Glu Pro Leu Leu Gly His Gly Pro Pro  
 1548 405 410 415  
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**RAW SEQUENCE LISTING** DATE: 08/02/2004  
**PATENT APPLICATION:** US/09/942,252C **TIME:** 15:05:37

Input Set : A:\09942252Sequence Listing.txt  
Output Set: N:\CRF4\08022004\I942252C.raw

1569	515	520	525
1571	Trp Asp Pro Val Ser Ala Gly Cys His Ala Glu Gly Cys Pro Ser Pro		
1572	530	535	540
1574	Lys Gln Thr Pro Arg Ala Ser Pro Glu Pro Gly Tyr Pro Gly Glu Pro		
1575	545	550	555
1577	Leu Leu Gly Leu Gln Ala Ala Ser Ala Gln Glu Pro Gly Cys Cys Pro		
1578	565	570	575
1580	Gly Leu Pro His Leu Cys Ser Ala Gln Gly Leu Ala Pro Ala Pro Cys		
1581	580	585	590
1583	Leu Val Thr Pro Ser Trp Thr Glu Thr Ala Ser Ser Gly Gly Asp His		
1584	595	600	605
1586	Pro Gln Ala Glu Pro Lys Leu Ala Thr Glu Ala Glu Gly Thr Thr Gly		
1587	610	615	620
1589	Pro Arg Leu Pro Leu Pro Ser Val Pro Ser Pro Ser Gln Glu Gly Ala		
1590	625	630	635
1592	Pro Leu Pro Ser Glu Glu Ala Ser Ala Pro Asp Ala Pro Asp Ala Leu		
1593	645	650	655
1595	Pro Asp Ser Pro Thr Pro Ala Thr Gly Gly Glu Val Ser Ala Ile Lys		
1596	660	665	670
1598	Leu Ala Ser Ala Leu Asn Gly Ser Ser Ser Ser Pro Glu Val Glu Ala		
1599	675	680	685
1601	Pro Ser Ser Glu Asp Glu Asp Thr Ala Glu Ala Thr Ser Gly Ile Phe		
1602	690	695	700
1604	Thr Asp Thr Ser Ser Asp Gly Leu Gln Ala Arg Arg Pro Asp Val Val		
1605	705	710	715
1607	720	725	730
1608	735	740	745
1610	750	755	760
1611	765	770	775
1613	780	785	790
1614	795	805	810
1616	800	815	820
1617	830	835	840
1619	845	850	855
1620	860	865	870
1622	880	885	890
1623	895	900	905
1628	910		
1629			
1631			
1632			
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1635			
1637			
1638			
1640			
1641			

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,252C

DATE: 08/02/2004  
TIME: 15:05:37

Input Set : A:\09942252Sequence Listing.txt  
Output Set: N:\CRF4\08022004\I942252C.raw

1643	Pro	Pro	Glu	Pro	Gln	Gly	Pro	Ala	Lys	Val	Arg	Pro	Gly	Pro	Ser	Pro
1644		915			920							925				
1646	Ser	Cys	Ser	Gln	Phe	Phe	Leu	Leu	Thr	Pro	Val	Pro	Leu	Arg	Ser	Glu
1647		930			935							940				
1649	Gly	Asn	Ser	Ser	Glu	Phe	Gln	Gly	Pro	Pro	Gly	Leu	Leu	Ser	Gly	Pro
1650	945				950						955				960	
1652	Ala	Pro	Gln	Lys	Arg	Met	Gly	Gly	Pro	Gly	Thr	Pro	Arg	Ala	Pro	Leu
1653						965				970				975		
1655	Arg	Leu	Ala	Leu	Pro	Gly	Leu	Pro	Ala	Ala	Leu	Glu	Gly	Arg	Pro	Glu
1656						980				985			990			
1658	Glu	Glu	Glu	Asp	Ser	Glu	Asp	Ser	Asp	Glu	Ser	Asp	Glu	Glu	Leu	
1659						995			1000			1005				
1661	Arg	Cys	Tyr	Ser	Val	Gln	Glu	Pro	Ser	Glu	Asp	Ser	Glu	Glu	Glu	Ala
1662						1010			1015			1020				
1664	Pro	Ala	Val	Pro	Val	Val	Ala	Glu	Ser	Gln	Ser	Ala	Arg	Asn	Leu	
E-->	1665	025	025			1030			1035			1040				
1667	Arg	Ser	Leu	Leu	Lys	Met	Pro	Ser	Leu	Leu	Ser	Glu	Thr	Phe	Cys	Glu
1668						1045			1050			1055				
1670	Asp	Leu	Glu	Arg	Lys	Lys	Ala	Val	Ser	Phe	Phe	Asp	Asp	Val	Thr	
1671						1060			1065			1070				
1673	Val	Tyr	Leu	Phe	Asp	Gln	Glu	Ser	Pro	Thr	Arg	Glu	Leu	Gly	Glu	Pro
1674						1075			1080			1085				
1676	Phe	Pro	Gly	Ala	Lys	Glu	Ser	Pro	Pro	Thr	Phe	Leu	Arg	Gly	Ser	Pro
1677						1090			1095			1100				
1679	Gly	Ser	Pro	Ser	Ala	Pro	Asn	Arg	Pro	Gln	Gln	Ala	Asp	Gly	Ser	Pro
E-->	1680	105	1105			1110			1115			1120				
1682	Asn	Gly	Ser	Thr	Ala	Glu	Glu	Gly	Gly	Phe	Ala	Trp	Asp	Asp	Asp	
1683						1125			1130			1135				
1685	Phe	Pro	Leu	Met	Thr	Ala	Lys	Ala	Ala	Phe	Ala	Met	Ala	Leu	Asp	Pro
1686						1140			1145			1150				
1688	Ala	Ala	Pro	Ala	Pro	Ala	Ala	Pro	Thr	Pro	Thr	Pro	Ala	Pro	Phe	Ser
1689						1155			1160			1165				
1691	Arg	Phe	Thr	Val	Ser	Pro	Ala	Pro	Thr	Ser	Arg	Phe	Ser	Ile	Thr	His
1692						1170			1175			1180				
1694	Val	Ser	Asp	Ser	Asp	Ala	Glu	Ser	Lys	Arg	Gly	Pro	Glu	Ala	Gly	Ala
E-->	1695	185	1185			1190			1195			1200				
1697	Gly	Gly	Ser	Lys	Glu	Ser	Lys	Glu	Ala							
1698						1205										

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/942,252C

DATE: 08/02/2004

TIME: 15:05:38

Input Set : A:\09942252Sequence Listing.txt

Output Set: N:\CRF4\08022004\I942252C.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1665 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16

M:332 Repeated in SeqNo=16